

# EXHIBIT 13

LPL-001557

LG전자 LCD DIVISION  
사 외 비 (CONFIDENTIAL)

## 출원 품 의 서

접수일자: 1998. 10. 13 일  
 의뢰번호: Au 88-271  
 GSC2 Code:  
 해외 ref. No.:  
 IPC 분류:

결		특 허 림	
발명자	관리자	담당자	관리자
재			

발명자	성명	한길종환/조영우	영문	Young Hwan Kim / Young Woo	한자	金宗煥 / 조영우	
	소속	특위 Gr./실	Part	사번	22002 20154	전화	7978 7413
** 공동발명일 경우는 특허명에 논의 **							
명칭	노트북 퍼스날 컴퓨터의 액정 표시 모듈 고정방법 및 장치						
발명 의 의	노트북 컴퓨터에 LCD Module 장착시 체결구로 인한 비구조적 손상 영역을 최소화할 수 있는 장치 대안적 LCD Module을 ABPC에 장착하기 위한						
관련자료 (유일자료명)	<input type="checkbox"/> 특허 DB(1.LGP 2.KRP 3.USP) <input type="checkbox"/> 타특허자료 <input type="checkbox"/> 논문 <input type="checkbox"/> 잡지 <input type="checkbox"/> 기타 예) USP 4,567,890 일본특허공개 평4-123456						
관련PJT	<input checked="" type="checkbox"/> 有 (Project명: ) <input checked="" type="checkbox"/> 현 양산기술 개량 <input type="checkbox"/> 기타						
개발단계	<input type="checkbox"/> 개발탐색 <input type="checkbox"/> 기술 (탐색) 연구 <input type="checkbox"/> 상품화 연구 <input type="checkbox"/> 설계기획 <input type="checkbox"/> 설계시작 <input type="checkbox"/> PILOT <input type="checkbox"/> 양산시작 <input type="checkbox"/> 판매						
발명성격	<input type="checkbox"/> 개량발명 <input type="checkbox"/> 신사업 Project 발명 <input type="checkbox"/> 해당 사업장의 LG 발명						
출원시금	<input type="checkbox"/> 보 통 <input checked="" type="checkbox"/> 금함(이유: Side Mounting 특허의 권리인)						
해의출원	<input checked="" type="checkbox"/> 필요(이유: ) <input type="checkbox"/> 불필요						

특 허 심 사 기 재 란	출원자료조사	<input type="checkbox"/> 실시 <input type="checkbox"/> 미실시 (사유: )		1. 관련자료명: <input type="checkbox"/> 자료 無
	출원목적	<input type="checkbox"/> 방어 <input type="checkbox"/> 특허청 형성 <input type="checkbox"/> 독점실시		2. Search 범위 <input type="checkbox"/> LG DB <input type="checkbox"/> USP <input type="checkbox"/> JP <input type="checkbox"/> 논문 <input type="checkbox"/> 기타 ( )
	심사청구	<input type="checkbox"/> 출원서 <input type="checkbox"/> 추후검토 (이유: )		
	해의출원	<input type="checkbox"/> 有 <input type="checkbox"/> 추후검토 <input type="checkbox"/> 無          해외 대리인		
	국내우선	<input type="checkbox"/> 有 (1. 선출원No.: )          2. 선출원일          3. 내리인 <input type="checkbox"/> 無		
	통합출원	<input type="checkbox"/> 有 (통합대상전 의뢰No.: ) <input type="checkbox"/> 無		
	예상항수	1. 독립항 <input type="checkbox"/> 항          2. 종속항 <input type="checkbox"/> 항          대리인		
	검토의견 (국기사업)			
	담당자	김토일 1998년 10월 13일		
	예상비용	출원료	작수금	심사청구료

LG(23)북001A4 1/10모(951106)

Wessax Translations

LG전자

01 JUN 2

VRE

EXHIBIT

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LPL-01557

**LPL-001558**

**발명의 명칭**

노트북 디스플레이의 액정 표시 모듈 고정방안 및 장치.

**발명의 목적**

본 IDE를 작성함으로써 해결하고자 하는 과제는  
 노트북 컴퓨터에 액정 표시모듈은 경박감이 있어 체결구조로 인한 ~~부하~~ 부하를 피하여  
~~액정 표시모듈~~ 강도에서 대변적 특성을 확보하여 NTPC에 장착하기 위함.....

• 종래기술이란 ?


- 1) 여러분이 본 IDE를 착안할때 바탕이 된 기술 또는
- 2) 위의 목적을 달성하기 위한 수단(방법 또는 구조)으로서, 여러분의 기술과 유사한 것.

**관련 자료**


- 1) 종래기술은 아니라 본 발명을 이해하는 데 도움이 되는 자료도 기재. 2)당세서 작성과 원구분위해 접하는 데 꼭 필요함. 3)자료 파악이 힘들면 특허청에 사견에 정보검색요청 가능.(정보검색 요청서 사용)

예) USP 4,567,890 / 일본특허공개 평 4-123456 / SID 95,8 < 논문명 >

**발명의 핵심**

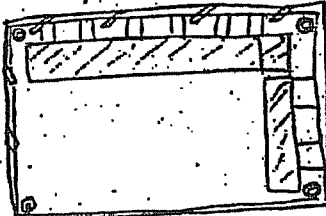
1)목적달성하기 위한 단점이 보완된 수단(구조나 방법) 이종래기술의 구성과 동작을 모두 해 두고 차이점을 중심으로 기재. 2)본 발명 구성에 꼭 필요한 필수사항의 Key-word를 적어주세요.  
 (원구분위 작성시 참고할 내용임) 예)  당세서 실시예와 같은 외관을 갖는 장치의 개형은 상이하며 종래기술(단순한 방식)은 목적의 방식에 (크기에 상관없이) "효과적"을 갖는 것입니다.

**종래 기술**



⇒ Front Mounting 또는 Side Mounting의 경우 체결부가 전면 또는 측면에 있어 일정 크기의 체결 Spacer가 필요하며 이는 Notebook PC의 Size가 고정되어 보편적 Display Area를 확대한 확보하는데 어려움이 있음

**실시예**



\* Back Light Unit의 뒷면 Plastic Case에 Notebook의 Outer Case와 체결할 수 있는 Unit은 설치하여 전면 Display 부위 Viewing Area를 확보하고 체결부의 일정한 Spacer를 고정시켜줌으로 뒤쪽 Display의 영역을 넓힌다

**KEY-WORD:**

본 발명의 효과

- 1) 당세서 한 발명의 장점을 적은 것. (예상되는 단점은 보완하여 시료로 올림)
- 2) 종래기술보다 무엇이 좋아졌는가?

\* 대역적 Viewing Area를 가진 LCD panel을 NTPC의 D 체결부위에 따른 Dead space 없이 장착 가능함.

또 다른 장점이나 부수적 효과는 없습니까 ?

LG (23) 북001A4 3/10 모(951105)      필요시 용지 추가후 Page 표기      Wessex Translation LG전자

LPL-001559

## 조래기술의 설명

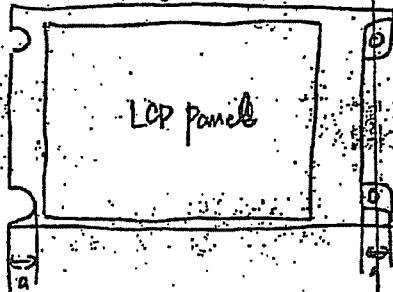
- 1)내용의 이해를 쉽게하고 설명의 편의를 위해 도면을 꼭 첨부.
- 2)본 IDEA로 해결한 종래 기술의 문제점,단점등을 기술.
- 3)필요시 여러가지 선행기술 설명이 가능.

## 도면

## 구성,동작 및 문제점 설명

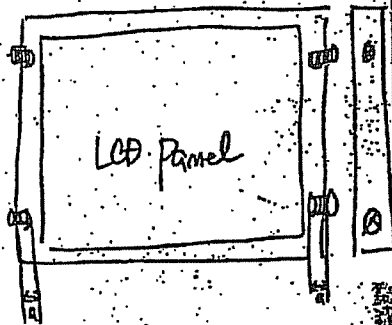
- 1)도면의 하단에 그 도면을 설명하는 간단한 이름을 붙여주세요.
- 2)도면의 구성요소에 필요에 따라 번호를 표기하거나 지시선을 사용하여 적절한 이름을 기재.

## ① Front Mounting



\* Notebook 用 TFT-LCD Module은  
NBPC 본체에 장착할때  
Front Mounting 또는 Side Mounting  
의 경우  
Mounting을 식별하는 제결부위로  
인한 Dead Space가 (a) 있어  
대면적 TFT-LCD를 장착하면  
NBPC의 size를 확장해야하는  
문제가 발생됨

## ② Side Mounting



LG(23)북001A4 4/10보(951105)

필요시 용지 추가후 Page 표기

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LPL-001560

## 실시례의 설명

1)당신의 IDEA를 적용한 예를 필수로 여러가지 기록.

2)이해하기 쉽게 상세히 설명.

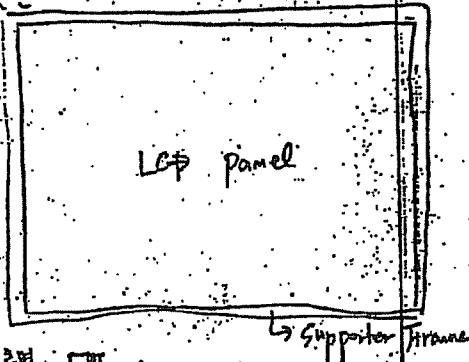
3)공정순서에 따른 도면,단면도,평면도,확대도등 다양한 도면이 본 발명의 이해를 쉽게함.

도면

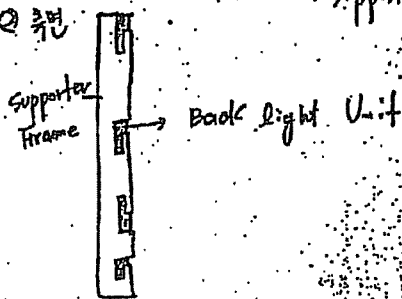
구성,동작 및 장점 설명

## 본 발명의 설명 (제 1 실시례)

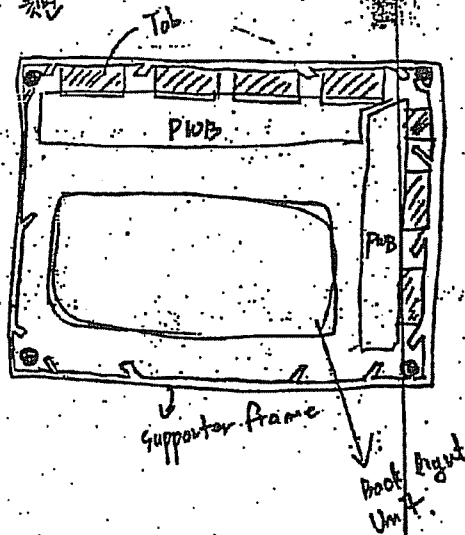
제 2,3 ... 실시례는 제1실시례에 이어 설명

① 실시례  
② 전면

③ 측면



④ 뒷면



Front 또는 Side Mounting 시와  
체결 부위의 spacer는 최소 두께를  
유지함

NBPC의 전면을 최대한 Display  
영역으로 사용하기 위해  
뒷면의 상하좌우 Edge 부위에  
NBPC의 Cover와 체결할수 있는  
체결 구조로 구성함

LCD Module의 후면은 Display  
영역과 무관하므로 체결 구조의  
위치에 어느곳이나 공간있음

&lt;정규범위&gt;

1. LCD Module ;

- LCD panel ;

- Supporter Frame

- Back light unit

후면에 Outer Case와 체결할수 있는  
체결구조로 가짐

LG(23)록001A4 5/10모(951106)

필요시 용지 추가후 Page 표기

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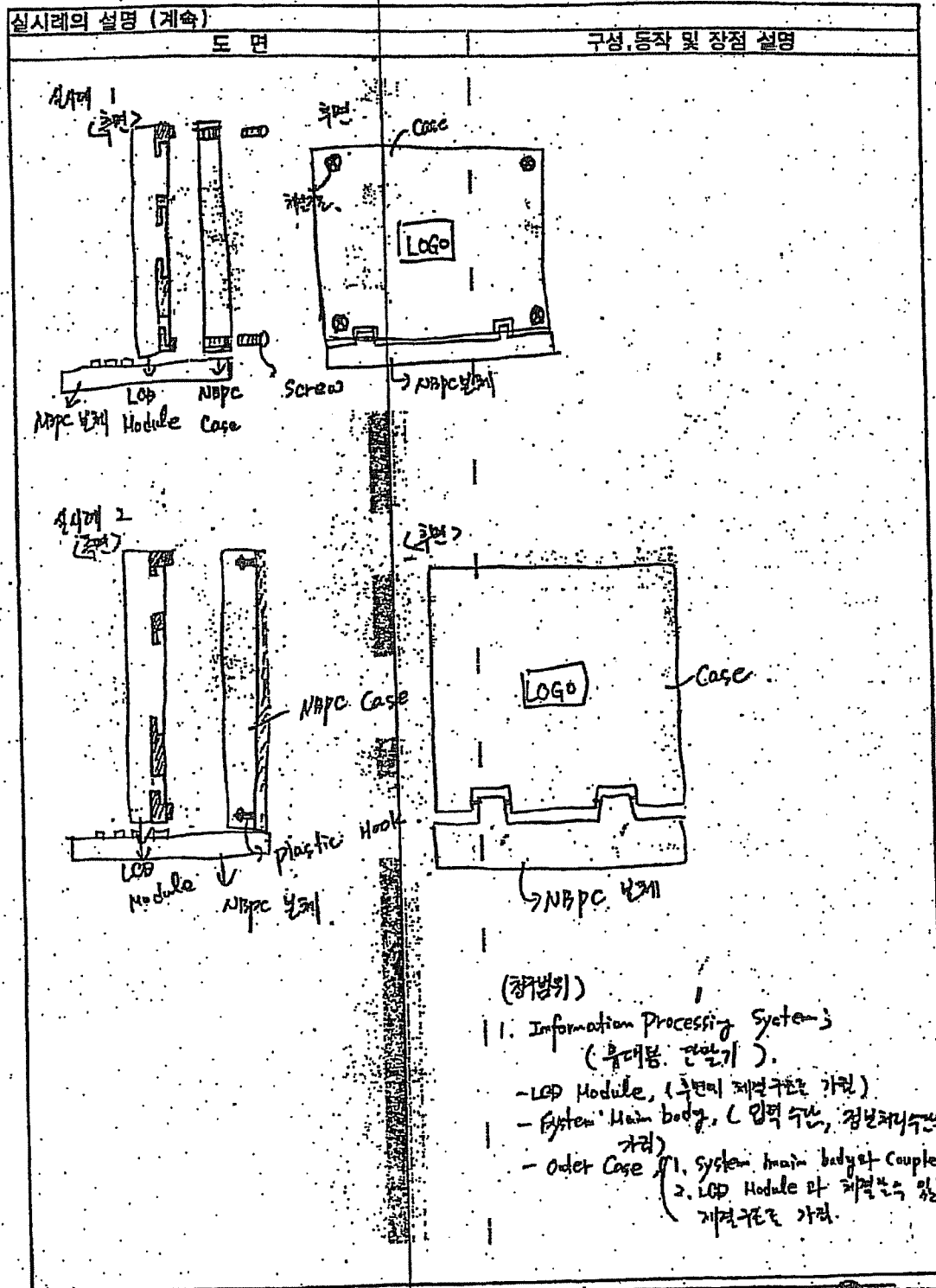
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LPL-001561



LG(23)특001A4 6/10모(951106)

필요시 용지 추가후 Page 표기

Wessex Translation LG전자

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LPL-001562

실시례의 설명 (계속)	
도면	구성, 동작 및 장점 설명
<p>* 상품 기획 방영운 마광 Interview 내용 (10/12) (유선)</p> <p>⇒ 후면 Mounting 시 체결력 문제점은 많음. 후면 Hinge Concept도 상당히 괜찮은 생각임. 생각 할 수 있는 그라픽인 문제는 전면의 유로 표시면적은 넓어 질 수 있으나 두께가 기존 보다 두꺼워질 Set Malcer에서는 두께 문제는 상당히 Sensitive 함. Side Mounting의 회피면을 생각한다면 후면 Mounting 이 전면에서는 좀 상당히 적용가능성은 있다고 생각함. 향후 필요시 개발될 때는 Maker에 Advice 하겠음.</p>	

LG(23) 록001A4 7/10 모(951105)

필요시 용지 추가부 Page 추가

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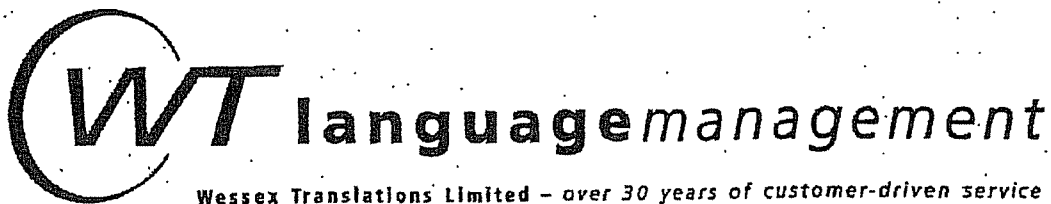
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LPL-01562

# EXHIBIT 14



LPL-001564



language  
consultancy

translation

interpreting

typesetting,  
dtp & artwork

editing &  
proof-reading

copywriting

machine  
translation &  
translation  
memory  
management

We, Wessex Translations Ltd., a British limited company established in 1972 for the purpose of providing translations between languages, being corporate members of the Institute of Translation and Interpreting, the independent professional association of accredited qualified, practising translators and interpreters in the United Kingdom and members of the Association of Translation Companies, do hereby declare that, to the best of our knowledge and belief, the attached documents are true and accurate English translations of the two original Korean Invention Disclosure Forms, both dated October 13, 1998 and relating to Application No. AW 98-221 and Application No. AW 98-222 respectively, our job reference 13850.

Signed at Romsey, this 1st day of June 2005

software  
localisation

A handwritten signature in black ink, appearing to read 'Victoria Conder'.

language  
training  
**Victoria Conder**  
(Translation Manager)

transcription  
(audio & video)

telephone  
marketing

voice-overs

web-page  
translation



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All work is undertaken in accordance with our conditions of service overleaf  
Company registration n°: 4167127 • VAT registration n°: GB 329 9351 28  
Registered address: Parmenter House • 57 Tower Street • Winchester • SO23 8TD • UK

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### Invention Disclosure Form

Date Received: October 13, 1998

Application No.: AW 98-221  
GSC2 Code:  
International Ref. No.:  
IPC Classification:

Signature			Patent Team	
	Inventor	Supervisor	Reporting Officer	Supervisor
	xxx			

Inventor	Name	Kor.	Eng. Jong-hwan Kim, Young-woo Cho Chin.		
	Dept.: Patent Gr./Section	Part	Employ No.	22062/40154	Tel. 7418/7413
* Inquiries to Patent Team when joint invention*					
Title	Method and apparatus for mounting an LCD display module on a notebook computer				
Description	A mounting method for attaching an LCD module to a notebook computer, which eliminates dead space in the display area and makes it possible to accommodate larger LCD modules				
References (Attached materials)	<input type="checkbox"/> Patent DB.(1. LQP 2. KRP 3. USP) <input type="checkbox"/> Other patent-related material <input type="checkbox"/> Research paper <input type="checkbox"/> Journal/Review <input type="checkbox"/> Others  <i>ex. USP 4,567,890</i> <i>Patent Publication No. JP 4-123456 A</i>				
Related Project	<input type="checkbox"/> New project (Project name: ) <input checked="" type="checkbox"/> Improvement to existing production technology <input type="checkbox"/> Other				
Development Stage	<input type="checkbox"/> Development project <input type="checkbox"/> Technology research <input type="checkbox"/> Commercialization research <input type="checkbox"/> Design planning <input type="checkbox"/> Design underway <input type="checkbox"/> Pilot production <input type="checkbox"/> Production <input type="checkbox"/> Released				
Nature of Invention	<input type="checkbox"/> Micro-invention <input type="checkbox"/> New business project invention <input type="checkbox"/> Invention relevant to other LG Electronics business division (s)				
Urgency of Patent Application	<input type="checkbox"/> Medium <input checked="" type="checkbox"/> Urgent (reasons for urgency: A design-around invention to side mounting)				
International Patent Application	<input checked="" type="checkbox"/> Necessary (reasons: A design-around invention to side mounting) <input type="checkbox"/> Unnecessary				

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	Reference Research	<input type="checkbox"/> Yes 1. Title of database/reference materials: 2. Scope of search <input type="checkbox"/> LG DB <input type="checkbox"/> USP <input type="checkbox"/> JP <input type="checkbox"/> Research papers <input type="checkbox"/> Others ( ) <input type="checkbox"/> No materials available <input type="checkbox"/> No (state reasons: )				
	Purpose of Patent Application	<input type="checkbox"/> Defensive <input type="checkbox"/> Creation of patent family <input type="checkbox"/> Monopoly				
	Request for Examination	<input type="checkbox"/> At the time of application <input type="checkbox"/> To be determined at a later time (state reasons: )				
	Patent Application Overseas	<input type="checkbox"/> Yes <input type="checkbox"/> To be determined at a later time <input type="checkbox"/> N/A		Overseas agent (s)		
	Prior Application in Korea	<input type="checkbox"/> Yes (1. Prior patent application No.: 3. Agent (s) <input type="checkbox"/> N/A		2. Application Date.		
	Joint Application	<input type="checkbox"/> Yes (Joint patent application No.: ) <input type="checkbox"/> N/A				
	Expected Number of Claims	1. No. of main claims 2. No. of sub-claims		Agent(s)		
	Review Opinion (special remarks)					
	Reporting Officer			Review Date		(Y/M/D)
	Expected Cost	Application Fee	Incidental Expenses	Examination Fee		

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LPL-001567

Title of the Invention

**Method and apparatus for mounting an LCD display module on a notebook computer**

Objective of the Invention *Technological issues which the invention is attempting to resolve or remedy.*

**To provide a method for mounting an LCD module to a notebook computer top case, reducing unusable portions of display area to enable the fitting of larger modules**

**\*What is prior art?** 1. Technologies or designs which served as a basis to the invention; or  
2. Technologies or designs used as a means (method or composition) to achieve the stated objective of invention, which are similar to the technologies or designs created by the inventor.

References

1. References can include, in addition to prior art, any informative materials helpful for the understanding of the invention submitted. 2. These supporting materials are absolutely necessary when writing a patent specification and to determine the scope of claims. 3. If you are having difficulties obtaining references, please notify the Patent Team to request a search (use Information Search Request Form).

1.

2.

3.

4.

Ex.: USP 4,567,890/ Patent Publication No. JP 4-123456 A/ SID 95.8 < Title of paper >

Key Features of the Invention (information used when establishing the scope of claims)

1. Apparatus or method created by the inventor as a means to achieve the stated objective of invention
2. Describe your invention by focusing on the differences that distinguish it from existing technologies or designs.
3. List a minimum number of keywords absolutely essential to describing the invention.

Ex.: [image/ image captions: embodiments, existing apparatus (simple seat)]

If you invented stools which can be embodied into the examples shown in the image, the key features of your invention is the attaching support to existing seats (regardless of their shapes).

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LPL-001568

**Prior Technologies**

**Shortcomings of Prior Technologies:**

Front or side mounting methods, having mounting areas on the front or on the sides, require spacers. Spacers occupy much of the display area and result in reduced display areas for notebook computers, in particular with compact models.

**Embodiment:**

By placing mounting units on the plastic case on the rear of the backlight unit, joining the module to the outer case of a notebook computer, the need for spacers is eliminated and optimal display area is secured in the viewing area.

**Keywords:**

**Benefits of the Invention**

1. State only benefits offered by the invention (expected shortcomings may be remedied for a new patent application)
2. State the improvements brought by your invention.

Enables the installation of large-viewing-area LCD panels on notebook computers by eliminating dead space created by existing mounting methods.

Are there additional benefits or advantages offered by the invention worth mentioning?

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LPL-01568

LPL-001569

<b>Prior Art</b>	
<ol style="list-style-type: none"> <li>1. For the sake of clarity of description, be sure to attach drawings.</li> <li>2. State the technological issues and shortcomings that the invention resolves or remedies.</li> <li>3. When necessary, more than one prior technology or design may be discussed.</li> </ol>	
<b>Drawings</b>	<b>Description of Components, Operation and Shortcomings</b>
<ol style="list-style-type: none"> <li>1. Front mounting</li> <li>2. Side mounting</li> </ol> <p>Front or side mounting methods currently in use for assembling TFT-LCD modules for notebook computers create dead space (a) due to the positions of the mounting areas, driving up the overall computer size.</p>	

LG (23) Teuk1A4 4/10Mo (951106) Add paper if necessary for pagination. LG Electronics

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LPL-01569



**LPL-001570**

<b>Description of Embodiments</b> <ol style="list-style-type: none"> <li>1. Describe as many embodiments of the invention as possible.</li> <li>2. Description should be detailed and easy to understand.</li> <li>3. Drawings including sectional view, top view and enlarged view improve the reader's understanding of the description of invention.</li> </ol>	
<b>Drawings</b>	<b>Description of Components, Operation and Advantages</b>
<b>Description of the Invention (Embodiment 1)</b> <i>Description of other embodiments may be added on at the end of this one.</i>	
<b>Embodiments</b>	
<b>1. Front View</b>	
<b>2. Side View</b>	
<b>3. Rear View</b>	
<p>Mounting areas, used to join the module with the top case of a notebook computer, are created on the back of the LCD module at the upper and lower edges and on either side in order to reduce the space occupied by spacers in the mounting areas when using front or side mounting methods and thus secure maximum display area.</p> <ul style="list-style-type: none"> <li>▪ Mounting areas could be anywhere on the back of the LCD module as they do not interfere with the display area.</li> </ul>	
<b>Claims:</b>	
<b>1. LCD module</b> <ul style="list-style-type: none"> <li>- LCD panel;</li> <li>- Supporter frame</li> <li>- Backlight unit with mounting areas for joining to the outer case on the back</li> </ul>	

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LPL-001571

Description of Embodiments (cont'd)	
Drawings	Description of Components, Operation and Advantages
<p><b>Embodiment I.</b>  <b>[Captions: Side View:</b>  <b>Body of notebook computer, LCD module, Computer case</b></p> <p><b>Rear View:</b>  <b>Mounting area, Case, Logo, Body of computer]</b></p> <p><b>Embodiment II.</b>  <b>[Captions: Side View:</b>  <b>LCD module, Notebook computer case, Plastic hook, Body of computer</b></p> <p><b>Rear View:</b>  <b>Logo, case, Notebook computer case]</b></p>	
<p><b>Claims</b></p> <ol style="list-style-type: none"> <li>1. Information processing system (portable device); <ul style="list-style-type: none"> <li>- LCD module (with mounting areas on the back)</li> <li>- System main body (with input and information processing devices)</li> <li>- Outer case: <ol style="list-style-type: none"> <li>1. Matching the system main body</li> <li>2. Equipped with apparatus for mounting an LCD module</li> </ol> </li> </ul> </li> </ol>	
<p>LG (23) Teuk1A4 6/10Mo (951106)</p> <p style="text-align: right;">LG Electronic</p>	

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LPL-01571

LPL-001572

Description of Embodiments (cont'd)	
Drawings	Description of Components, Operation and Advantages
<p><b>Summary of the interview with Product Planning Dept. Manager Yeong-un Bang (phone interview on Oct. 12):</b></p> <ul style="list-style-type: none"> <li>- Back mounting entails no known technical issues.</li> <li>- Using back hinges could be a solution as well. While this method enlarges usable display area, the only drawback would be the thickness of the final assembly. Thickness is a sensitive issue for set makers. A back-mounting tray may be an effective alternative as a solution to design-around the side mounting method. The development team or the makers will be advised when necessity arises.</li> </ul>	

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LPL-01572

# EXHIBIT 15

LPL-001574

LG 전자 LCD DIVISION  
사 외 비 (CONFIDENTIAL)

## 출원 품 의 서

1998. 10. 7

( 97-1289 14298  
97-2550 97-6880 )

접수일자: 199 년 월 일

의뢰번호: Au ps-222

GSC2 Code:

해외 ref. No.:

IPC 분류:

결 재	특 허 팀			
	발명자	관리자	담당자	관리자
	Young-ho			

발명자	성명	김종환. 김영호. 영문 Jong-Hwan Kim, Young-Ho Cho				
	소속	특허	Gr./실	Part	사번	전화
					22067 40154	7418 7413
** 공동발명일 경우는 특허팀에 문의 **						
명칭	노트북 퍼스본 컴퓨터의 액정 표시 장치의 고정방범 및 장치					
발명의 요지	노트북 컴퓨터 본체에서 LCD Module의 뒷면에서 고정하여 공정의 간소화와 대형 LCD 채택을 가능하게 함. Hinge arm 구조					
관련자료 (유청자료명)	<input type="checkbox"/> 특허 DB(1.LGP 2.KRP 3.USP) <input type="checkbox"/> 타특허자료 <input type="checkbox"/> 논문 <input type="checkbox"/> 잡지 <input type="checkbox"/> 기타 KR97-20550 (side long-arm Hinge)    예) USP 4,567,890 일본특허공개 제4-123456					
관련PJ	<input type="checkbox"/> 유(Project명: ) <input type="checkbox"/> 현 양산기술 개량 <input type="checkbox"/> 기타					
개발단계	<input type="checkbox"/> 개발탐색 <input type="checkbox"/> 기술(탐색)연구 <input checked="" type="checkbox"/> 상품화 연구 <input type="checkbox"/> 설계기회 <input type="checkbox"/> 설계시작 <input type="checkbox"/> PILOT <input type="checkbox"/> 양산시작 <input type="checkbox"/> 판매					
발명성격	<input checked="" type="checkbox"/> 개량발명 <input type="checkbox"/> 신사업 Project 발명 <input type="checkbox"/> 해당 사업장의 LGE 발명					
출원시급	<input type="checkbox"/> 보 통 <input checked="" type="checkbox"/> 급함(이유: 5/11 라면 특허 Long-arm Hinge 회피성기 대응)					
해외출원	<input checked="" type="checkbox"/> 필요(이유: 타사 5/11 특허 회피 대응특허) <input type="checkbox"/> 불필요					

특 허 심 사 기 제 단	자료조사	<input type="checkbox"/> 실시    1. 관련자료명: <input type="checkbox"/> 자료 無 2. Search 범위 <input type="checkbox"/> LG DB <input type="checkbox"/> USP <input type="checkbox"/> JP <input type="checkbox"/> 논문 <input type="checkbox"/> 기타( ) <input type="checkbox"/> 미실시 (사유: )		
	출원목적	<input type="checkbox"/> 방어 <input type="checkbox"/> 특허청 정성 <input type="checkbox"/> 독점실시		
	심사청구	<input type="checkbox"/> 출원사 <input type="checkbox"/> 추후점도 (이유: )		
	해외출원	<input type="checkbox"/> 유 <input type="checkbox"/> 추후점도 <input type="checkbox"/> 無    해외 대리인		
	국내우선	<input type="checkbox"/> 유 (1. 선출원No.:    2. 선출원일    3. 내리인 ) <input type="checkbox"/> 無		
	동합출원	<input type="checkbox"/> 유 (동합대상권 의뢰No.: ) <input type="checkbox"/> 無		
	예상항수	1. 독립항    항    2. 종속항    항    대리인		
	검토의견 (특기사항)			
	담당자	검토일    199 년 월 일		
	예산비용	출원료	착수금	심사청구료

LG (23) 목001A4 1/10모(951106)

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LPL-01574

LPL-001575

## 양 도 증

양 수 인

주 소 : 서울특별시 영등포구 여의도동 20번지

성 명 : LG전자 주식회사 대표이사 사장 구 자 홍

다음의 발명(고안)에 관하여 특허(실용신안등록)를 받을 수 있는 권리를 귀하에게 양도합니다.

199 8 년 1 0 월 1 2 일

양 도 인 (발명자)	주 소	경기도 군포시 개항동 주공2단지 315-704
	주민등록번호	67102-1090426
	성 명	조 영우 <i>Yongwoo</i>
	국 적	대 한 민 국
기		
1.사건의 표시		
2.발명(고안)의 명칭		

\* 공동 출원시는 발명자(고안자)당 10매씩 양도증만 추가하여 첨부 바랍니다.

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LPL-01575



LPL-001576

## 양 도 증

양수인

주 소 : 서울특별시 영등포구 여의도동 20번지

성 명 : LG전자주식회사 대표이사 사장 구 자 총

다음의 발명(고안)에 관하여 특허(실용신안등록)를 받을 수 있는 권리를 귀하에게 양도합니다.

199 8 년 10 월 12 일

양도인 (발명자)	주 소	경기도 안양시 동안구 화정동 1057 무림A 204/15호
	주민등록번호	630408-1915616
	성 명	김 종 환
	국 적	대한민국
配		
1. 사건의 표시		
2. 발명(고안)의 명칭		

\* 공동 출원시는 발명자(고안자)당 1매씩 양도증만 추가하여 첨부 바랍니다.

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**발명의 명칭**

노트북 터스널 컴퓨터의 액정 표시 모듈의 고정방법 및 장치.

**발명의 목적**

본 IDE를 본 적용함으로써 해결하고자 하는 점

노트북 컴퓨터에서 LCD module과 노트북의 Top case와는 전이 전하  
하고 공정의 간소화 및 부품감소, 구형기 위함.

유연성 증가의 효과.

- 종래기술이란 ? 1) 여러분이 본 IDE를 착안할때 바탕이 된 기술 또는  
2) 위의 목적을 달성하기 위한 수단(방법 또는 구조)으로서 여러분의 기술과 유사한 것

**관련 자료**

- 1) 종래기술은 아니라 본 발명을 이해하는 데 도움이 되는 자료도 기고. 2) 앞에서 작성한 청구범위를 정하는 데  
꼭 필요함. 3) 자료 파악이 원하면 특허청에 사전에 정보검색요청 가능. (정보검색 요청서 사용)

1)

2)

3)

4)

예) USP 4,567,890 / 일본특허공개 제 4-123456 / SID 95.8 &lt; 논문명 &gt;

**발명의 핵심**

(청구범위 작성시 참고할 내용임)

- 1) 목적을 달성하기 위한 핵심이 포함된 수단(구조나 방법) 2) 종래기술의 구성과 동작을 일주에 두고  
차이점을 중심으로 기고. 3) 본 발명 구성에 꼭 필요한 최소한의 Key-word도 적어주시고.  
4) 앞에서 실시예와 같은 작가를 설명하였을 때 앞의 핵심은  
심사관 종래기술(단순한 명제) 등등의 방식에 (모양에 상관없이) "적용"을 하는 것입니다.

1. 노트북 컴퓨터의 Top case 뒷면에 Hinge Arm은 설치하여  
LCD Module의 표시부분 뒷면과 견합함.
2. Top case 뒷면에서 System의 Hinge Arm과 LCD Module은  
한번에 체결하게 함.
3. Top case와 LCD module의 결합시 열면과 아래부분의  
공백은 확대 한수 있으므로 대면적 LCD의 채택은 가능케함.

KEY-WORD: Back Hinge Arm. Module 결합.

**본 발명의 효과**

- 1) 당신이 한 발명의 장점을 적을 것. (예상되는 단점은 보완하여 새로운 출원)  
2) 종래기술보다 무엇이 좋아질까 ?

1. Hinge Arm과 Top case는 한번의 견합으로 이루어지도록 두면  
중의 간섭이 이루어진.
2. LCD module과 Top case 열면과 아래부분의 공백은 확대  
중에서 견합하므로써 LCD의 유연성 증가의 효과가 있음.  
또 다른 장점이나 부수적 효과는 없습니까 ?

LG(23)특00184 3/10 모(951105)

필요시 용지 추가부 Page 표기

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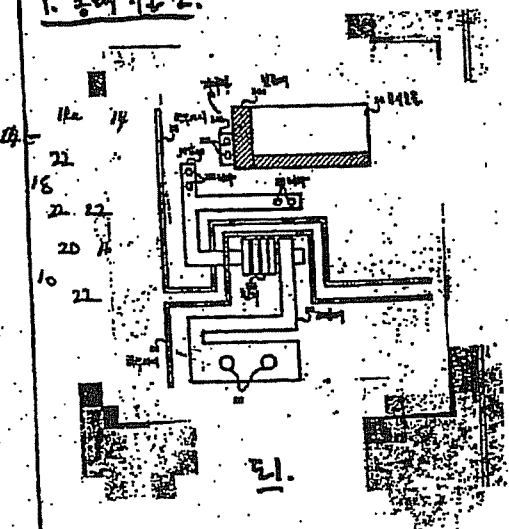
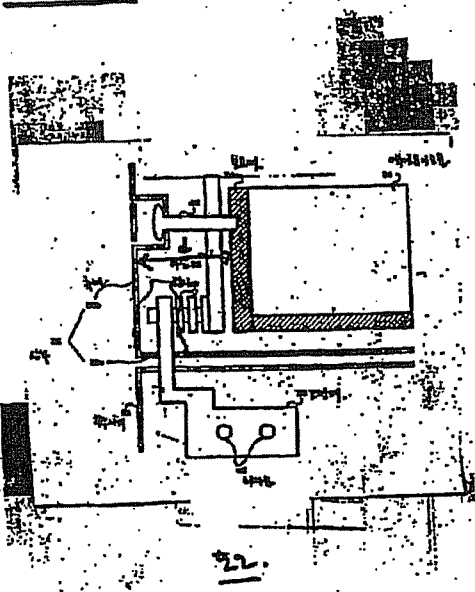
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LPL-01577

LPL-001578

종래기술의 설명		구성, 동작 및 문제점 설명	
<p>1) 내용외 이해를 쉽게하고 설명의 편의를 위해 도면을 꼭 첨부.            2) 본 IDEA로 해결한 종래 기술의 문제점, 단점등을 기술.            3) 필요시 여러가지 선행기술 설명이 가능.</p>			
<p>도면</p> <p>1)도면의 하단에 그 도면을 설명하는 간단한 이름을 붙여주세요.            2)도면의 구성요소에 필요에 따라 번호를 표기하거나 지시선을 사용하여 직접 이름을 기재.</p>			
<p><u>1. 종래 기술 1.</u></p>  <p><u>2. 종래 기술 2.</u></p> 		<p><u>종래기술</u></p> <p>도에서 한지(20)에 의하여 액정 표시 모듈 (14) 및 상부사시(12)가 선회 가능하게 하부사시(10)에 고정되어져 있다.</p> <p>액정 표시 모듈(14)에는 지지면(14b)이 하나에 의해 상부사시 밑면과 고정되어 한지(20)은 고정대(16)의 안쪽면부에 아암(18)을 선회가능하게 한다.</p> <p>고정대(16)은 하부사시(10)에 고정되어져 종래의 한지와 액정 표시 모듈이 상부사시(12)에 개별적으로 고정되어 부품이 많아지는 작업공정이 많아지고 하부에서 안 고정되므로 상당한 하판의 분리되는 현상이 발생하게 된다.</p> <p><u>개선기술</u></p> <p>도에서 아암은 옆면이 수직이므로 90°의 각도가 되도록 하므로 옆면의 공백이 발생하게 된다.</p>	

LG(23)북001A4 4/10도(951106)

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LPL-01578

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LPL-001579

557-44-6 제 2면

실시례의 설명

- 1)당신의 IDEA를 적용한 예를 필수로 여러가지 기록.
- 2)이해하기 쉽게 상세히 설명.
- 3)공정순서에 따른 도면,단면도,평면도,확대도등 다양한 도면이 본 발명의 이해를 쉽게함.

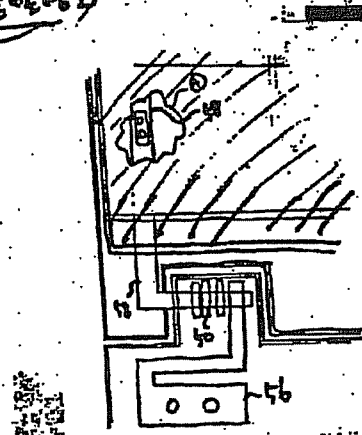
도면

구성, 동작 및 장점 설명

본 발명의 설명 (제 1 실시례)

제 2,3 ... 실시례는 제1실시례에 이어 설명

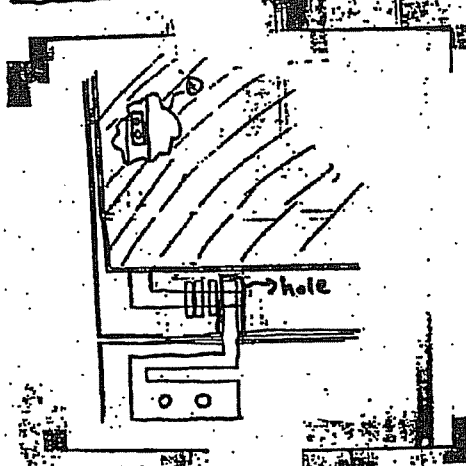
본 발명도



본 발명도

하단(56)은 하부사이에 2지대(56)부의  
~~상하단과~~ ~~상하단~~ 안쪽면에 아암(58)  
 은 상하단과 하단과 연결되나, 아암은 LCD의  
 표시면의 후면에 LCD 본체 본체  
 판 또는 금속판에 나사, 못, Hook등으로  
 고정하여 결과 LCD module과  
 상부사이가 부착되어 LCD module과  
 상부사이의 부속공백 "b" 값은 적당  
 한수 있음.

본 발명도



본 발명도

하단 상부에 하단이 가능하도록 함.

LG(23)북001A4 5/10모(951106)

필요시 용지 추가후 Page 표기

Wessex Translation LG전자

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—VRC—

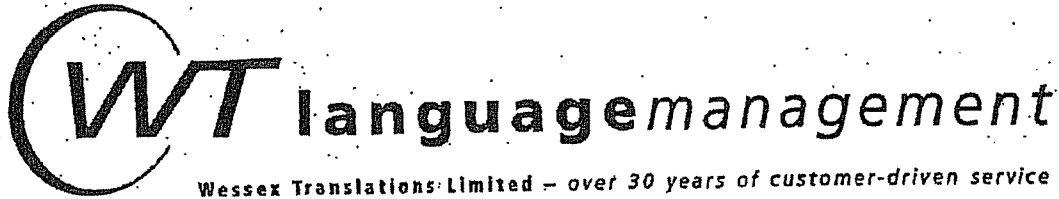
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LPL-01579

6

# EXHIBIT 16

LPL-001581



language  
consultancy

translation

interpreting

typesetting,  
dtp & artwork

editing &  
proof-reading

copywriting

machine  
translation &  
translation  
memory  
management

We, Wessex Translations Ltd., a British limited company established in 1972 for the purpose of providing translations between languages, being corporate members of the Institute of Translation and Interpreting, the independent professional association of accredited qualified, practising translators and interpreters in the United Kingdom and members of the Association of Translation Companies, do hereby declare that, to the best of our knowledge and belief, the attached documents are true and accurate English translations of the two original Korean Invention Disclosure Forms, both dated October 13, 1998 and relating to Application No. AW 98-221 and Application No. AW 98-222 respectively, our job reference 13850.

Signed at Romsey, this 1st day of June 2005

software  
localisation

A handwritten signature in black ink, appearing to read 'Victoria Conder'.

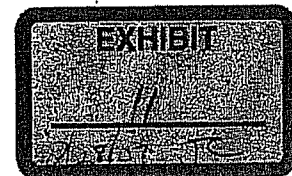
language  
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**Victoria Conder**  
(Translation Manager)

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Registered address: Parmenter House · 57 Tower Street · Winchester · SO23 8TD · UK

LPL-01581



LPL-001582

LG Electronics LCD DIVISION  
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Invention Disclosure Form
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(97-12899 14278  
97-20550 97-45880)

Date Received: October 13, 1998

Application No.: AW 98-222  
GSC2 Code:  
International Ref. No.:  
IPC Classification:

Signature	Patent Team			
	Inventor	Supervisor	Reporting Officer	Supervisor
	Yong Woo			

Inventor	Name	Kor.	Eng. Jong-hwan Kim, Young-woo Cho Chin.			
	Dept.: Patent	Employ	22062/40154	Tel.	7418/7413	
	Gr./Section	Part	No.			
* Inquiries to Patent Team when joint invention*						
Title	Method and apparatus for mounting an LCD display module on a notebook computer					
Description	A mounting method for attaching an LCD module to a notebook computer using a hinge arm placed behind the module, which simplifies assembly and enables the fitting of larger LCD modules					
References (Attached materials)	<input type="checkbox"/> Patent DB (1. LGP 2. KRP 3. USP) <input type="checkbox"/> Other patent-related material <input type="checkbox"/> Research paper <input type="checkbox"/> Journal/review <input type="checkbox"/> Others Korean Patent Application No. 97-20550 (Side long-arm hinge)  <i>ex. USP 4,567,890.</i> <i>Patent Publication No. JP 4-123456</i>					
Related Projects	<input type="checkbox"/> New project (Project name: ) <input type="checkbox"/> Improvement to existing production technology <input type="checkbox"/> Others					
Development Stages	<input type="checkbox"/> Development project <input type="checkbox"/> Technology research <input checked="" type="checkbox"/> Commercialization research <input type="checkbox"/> Design planning <input type="checkbox"/> Design underway <input type="checkbox"/> Pilot production <input type="checkbox"/> Production <input type="checkbox"/> Released					
Nature of Invention	<input checked="" type="checkbox"/> Micro-invention <input type="checkbox"/> New business project invention <input type="checkbox"/> Invention relevant to other LG Electronics business division (s)					
Urgency of Patent Application	<input type="checkbox"/> Medium <input checked="" type="checkbox"/> Urgent (reasons for urgency: A design-around invention to the side mounting method using side long-arm hinges)					
International Patent Application	<input checked="" type="checkbox"/> Necessary (reasons: A design-around invention to competitors' side mounting patents) <input type="checkbox"/> Unnecessary					

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LPL-001583

To be filled out by the Patent Team Official	Reference Research	<input type="checkbox"/> Yes 1. Title of reference materials: 2. Searched in <input type="checkbox"/> LG DB <input type="checkbox"/> USP <input type="checkbox"/> JP <input type="checkbox"/> Research papers <input type="checkbox"/> Others ( ) <input type="checkbox"/> No materials available <input type="checkbox"/> No (state reasons: )				
	Purpose of Patent Application	<input type="checkbox"/> Defensive <input type="checkbox"/> Creation of patent family <input type="checkbox"/> Monopoly				
	Request for Examination	<input type="checkbox"/> At the time of application <input type="checkbox"/> To be determined at a later time (state reasons: )				
	Patent Application Overseas	<input type="checkbox"/> Yes <input type="checkbox"/> To be determined at a later time <input type="checkbox"/> N/A		Overseas agent (s)		
	Prior Application in Korea	<input type="checkbox"/> Yes (1. Prior patent application No.: 2. Application Date 3. Agent (s) <input type="checkbox"/> N/A				
	Joint Application	<input type="checkbox"/> Yes (Joint patent application No.: ) <input type="checkbox"/> N/A				
	Expected Number of Claims	1. No. of main claims 2. No. of sub-claims		Agent(s)		
	Review Opinion (special remarks)					
	Reporting Officer			Review Date		(Y/M/D)
Expected Cost	Application Fee	Incidental Expenses	Examination Fee			Total

LG (23) Teuk001A4 1/10Mo (951106)

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LPL-01583

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LPL-001584

## Deed of Assignment

## Assignee

Name: LG Electronics Inc., Chairman & CEO: Ja-hong Gu  
 Address: 20, Yeonido-dong, Yeongdeungpo-gu, Seoul

I, Young-woo Cho, hereby transfer and assign the right to apply for and obtain patent/utility model registration on the below-mentioned invention (design) to the assignee.

Date: October 12, 1998

Assignor (Inventor)	Address	215-704, Jugong Apt. Complex 2, Jaegung-dong, Gunpo, Gyeonggi-do	
	Resident Registration #	670102-1090426	
	Name	Young-woo Cho	Signature
	Nationality	Republic of Korea	
Record			
1. Case Assigned			
2. Title of Invention (Design)			

\* For joint applications, please attach additional deeds of assignment, one per inventor (designer).

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LPL-001585

Deed of Assignment		
<b>Assignee</b> Name: LG Electronics Inc., Chairman & CEO: Ja-hong Gu Address: 20, Yeouido-dong, Yeongdeungpo-gu, Seoul		
I, <u>Jong-hwan Kim</u> , hereby transfer and assign the right to apply for and obtain patent/utility model registration on the below-mentioned invention (design) to the assignee.		
Date: October 12, 1998		
Assignor (Inventor)	Address	Mugunghwa Apt. #304-1505, 1057, Hoge-dong, Dongan-gu, Anyang, Gyeonggi-do
	Resident Registration #	630408-1715616
	Name	Jong-hwan Kim <i>Signature</i>
	Nationality	Republic of Korea
Record		
1. Case Assigned		
2. Title of Invention (Design)		

\* For joint applications, please attach additional deeds of assignment, one per inventor (designer).

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LPL-001586

Title of the Invention

**Method and apparatus for mounting an LCD display module on a notebook computer**  
Objective of the Invention *Technological issues the invention is attempting to resolve or remedy.*

**To provide a method for the stable mounting of an LCD module onto a notebook computer top case and to simplify assembly and boost space efficiency by reducing the space occupied by components in a notebook computer**

- \*What is prior art? 1. Technologies or designs which served as a basis to the invention; or  
 2. Technologies or designs used as a means (method or apparatus) to achieve the stated objective of invention, which are similar to the technologies or designs created by the inventor.

**References** 1. References can include, in addition to prior art, any informative materials helpful for the understanding of the invention submitted. 2. These supporting materials are absolutely necessary when writing a patent specification and in determining the scope of claims. 3. If you are having difficulties obtaining references, please notify the Patent Team to request a search (use Information Search Request Form).

1.

2.

3.

4.

Ex.: USP 4,567,890/ Patent Publication No. JP 4-123456 A/ SID 95.8 <Title of paper>

Key Features of the Invention (information used when establishing the scope of claims)

1. Apparatus or method created by the inventor as a means to achieve the stated objective of invention.
2. Describe your invention by focusing on the differences that distinguish it from existing technologies or designs.
3. List a minimum number of keywords absolutely essential to identifying the invention.

Ex.: [image/ image captions: embodiments, existing apparatus (simple seat)]

If you invented stools that can be embodied into the examples shown in the image, the key feature of your invention is the attaching support to existing seats (regardless of their shapes).

1. An LCD module is joined to the top case of a notebook computer using hinge arms placed on the back of the top case, fastened to the back of the module.
2. The hinge arms of the lower section and the LCD module are fastened together to the rear of the top case in a single process, requiring no additional mounting steps.
3. This method of mounting an LCD module onto a top case, by minimizing unused space on

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LPL-001587

either side of the case, enables larger-size LCD modules to be fitted.

**Keywords:** Back hinge arms, module mounting

**Benefits of the Invention**

1. State only benefits offered by the invention (expected shortcomings may be remedied for a new patent application)
2. State the improvements brought by your invention.
1. This mounting arrangement, requiring only hinge arms on the top case to join the latter with the LCD module, dispenses with other components and contributes to simplicity of assembly.
2. As this method minimizes the unused space left on either side of the LCD module and top case, there is more room to accommodate larger LCD modules.

Are there additional benefits or advantages offered by the invention worth mentioning?

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**LPL-001588**

### Prior Art

1. For the sake of clarity of description, be sure to attach drawings.
2. State the technological issues and shortcomings resolved or remedied by the invention.
3. When necessary, more than one prior technology or design may be discussed.

### Drawings.

### Description of Components, Operation and Shortcomings

## 1. Prior Technology I:

**Drawing 1.**

[Captions: Upper chassis (12), Support plate (14b), Supporting table (14a), LCD display module (14), arm (18), xx screws, xx screws, Hinge (20); Hinge plate (16), Lower chassis (10), Screw (22)]



# EXHIBIT 17

## List of documents: standard disclosure

### Notes:

- The rules relating to standard disclosure are contained in Part 31 of the Civil Procedure Rules.
- Documents to be included under standard disclosure are contained in Rule 31.6
- A document has or will have been in your control if you have or have had possession, or a right of possession, of it or a right to inspect or take copies of it.

In the Patents County Court	
Claim No.	PAT No. 04022
Claimant (including ref.)	LG. PHILIPS LCD CO., LTD
Defendant (including ref.)	(1) TATUNG (UK) LTD (2) VIEWSONIC EUROPE LTD (3) NUMBER ONE SERVICES LTD
Date	

### Disclosure Statement

I state that I have carried out a reasonable and proportionate search to locate all the documents which I am required to disclose under the order made by the court on (insert date) 11 January 2005

(I did not search for documents -

1. pre-dating 23 October 1996 or post-dating 23 October 2000
2. located elsewhere than LG Philips LCD R&D Centre, 533 Hogae-dong, Dongan-gu, Anyang-shi, Gyeonggi-do 431-080, Korea

~~2. in categories other than~~

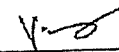
I certify that I understand the duty of disclosure and to the best of my knowledge I have carried out that duty. I further certify that the list of documents set out in or attached to this form, is a complete list of all documents which are or have been in my control and which I am obliged under the order to disclose.

I understand that I must inform the court and the other parties immediately if any further document required to be disclosed by Rule 31.6 comes into my control at any time before the conclusion of the case.

(I have not permitted inspection of documents within the category or class of documents (as set out below) required to be disclosed under Rule 31(5)(b) or (c) on the grounds that to do so would be disproportionate to the issues in the case.)

N/A

Signed

Young Wou Cho 

Date

21 January 2005

(Claimant) (Defendant) (s-litigation friend)

Position or office held (if signing on behalf of firm or company)

Please state why you are the appropriate person to make the disclosure statement.

Manager, IP Team 1, LG. PHILIPS LCD CO., LTD. I am the person responsible for managing this action and I have authorisation to sign this document on behalf of the Claimant.

LPL-00170

continued overleaf

List of documents:

for standard disclosure (4.99)



Laserform International 1999

List and number here,  
in a convenient order,  
the documents (or  
bundles of documents  
if of the same nature,  
e.g. invoices) in your  
control, which you do  
not object to being  
inspected. Give a  
short description of  
each document or  
bundle so that it can be  
identified, and say if it  
is kept elsewhere  
i.e. with a bank or  
broker

I have control of the documents numbered and listed here. I do not object to you  
inspecting them/producing copies.

1. LG Electronics LCD Division Invention Disclosure Form dated 13  
October 1998, Application No.: AW98-221 (Korean version).
2. English Translation of the LG Electronics LCD Division Invention  
Disclosure Form dated 13 October 1998, Application No.: AW98-221.
3. LG Electronics LCD Division Invention Disclosure Form dated 13  
October 1998, Application No.: AW98-222 (Korean version).
4. English Translation of the LG Electronics LCD Division Invention  
Disclosure Form dated 13 October 1998, Application No.: AW98-222.

List and number here,  
as above, the  
documents in your  
control which you  
object to being  
inspected.  
(Rule 31.19)

I have control of the documents numbered and listed here, but I object to you  
inspecting them:  
as set out in the attached Schedule A.

Say what your  
objections are

I object to you inspecting these documents because:  
they are by their nature privileged.

List and number here,  
the documents you  
once had in your  
control, but which you  
no longer have. For  
each document listed,  
say when it was last in  
your control and where  
it is now.

I have had the documents numbered and listed below, but they are no longer in my  
control.

Originals of correspondence in Schedule A which were last in the  
Claimant's control on the date they were posted or otherwise  
despatched to their respective addressees and all documents in the  
Claimant's control relating to matters in question in these  
proceedings which have been lost, discarded, mislaid, destroyed or  
otherwise disposed of from time to time distributed to third parties,  
on dates not known to the Claimant.

Schedule A

<u>No.</u>	<u>Description</u>	<u>Dated</u>
1.	Correspondence and communications between the Claimant or its officers or employees and their legal advisers and its patent agents (including those in the service of the Claimant) of a confidential nature for the purpose of obtaining or providing legal advice and assistance (including advice and assistance in relation to the protection of any invention or technical information) together with memoranda or notes of legal advice given or obtained; and any copies or drafts of the same.	Various
2.	Correspondence and communications between the Claimant and/or its legal advisers and its patent agents (including those in the service of the Claimant) with all third parties for the purpose of obtaining or collecting evidence or for obtaining information with a view to obtaining such evidence or for the purpose of obtaining or providing legal advice with regard to or in contemplation of legal proceedings; and any copies or drafts of the same.	Various
3.	Instructions to Counsel; Counsel's opinions in connection with or in contemplation of these proceedings; notes of conferences and advice provided by Counsel; and any copies or drafts of the same.	Various
4.	Drafts of Statements of Case, court documents and related documents, proofs of evidence, statements, notes, memoranda and other documents prepared by the Claimant, its officers, employees and/or its legal advisers and patent agents (including those in the service of the Claimant) for the purpose of and in connection with or in contemplation of these proceedings; and any copies or drafts of the same.	Various
5.	Correspondence, memoranda, notes and other documents between the Claimant, its officers or employees and its legal advisers and its patent agents (including those in the service of the Claimant) the dominant purpose of which was the contemplation or furtherance of litigation; and any copies or drafts of the same.	Various